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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/379,837	08/24/1999	TAKASHI IGARASHI	KON-1523	1789
20311	7590	05/06/2005	EXAMINER	
MUSERLIAN, LUCAS AND MERCANTI, LLP			TRAN, THAI Q	
475 PARK AVENUE SOUTH			ART UNIT	
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NEW YORK, NY 10016			2616	

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Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 09/379,837	Applicant(s) IGARASHI, TAKASHI	
	Examiner Thai Tran	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 October 2004.
- 2a) ☒ This action is FINAL.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,4-9,11-15,18-23 and 25-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,4-9,11-15,18-23 and 25-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |                                                                                                                        |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                                                       | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments filed Oct. 28, 2004 have been fully considered but they are not persuasive.

In re pages 2-5, applicant argues that Tateyama does not teach nor suggest that the first controller, the one that controls the image recording device, automatically controls the image recording device so that the image based on the image information transmitted from the second controller is recorded because Tateyama teaches that operating unit 26 of printer 1102 is operated by the user to input instructions such as start and end of printer operation, see specifically, paragraph 0453 and that the second controller does not add priority data to the image information data and then transmits the image information data and then transmits the image information data with the priority data to the first controller so that the first controller controls printing based on the priority data because the "print cycle", which is referred to in paragraph 0467, is the beginning of a second print operation after completion of the first printing operation.

In response, it is noted that the claimed invention recites "wherein the first controller sends a read command signal to the second controller to read the image information to read the image information stored in the memory, and to transmitted the read information to the first controller through the communication network, and automatically controls the image recording device so that the image based on the image information transmitted from the second controller is recorded". The above limitation is

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met by the capability of printing process based on the SPA and EPA disclosed in pages 22-23, paragraphs #0465 and #0466 as discussed in the last Office Action.

Additionally, the claimed priority data is met by the confirmation of printing cycles (ci-1, ci, ci+1) disclosed in page 23, paragraph #0469 because the printing confirmation will allow the next printing cycle to be performed. Thus, Tateyama discloses all the claimed limitations as discussed in the last Office Action.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 4-9, 11-15, 18-23, and 25-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Tateyama et al (US 2003/0158979 A1) as set forth in the last Office Action.

Regarding claim 1, Tateyama et al discloses the claimed an image recording system (Figs. 65-70) comprising:

(a) an image recording device (memory 23, print-head 24 and driver 25 of Fig. 69, page 21, paragraph #0441) provided in a first location for recording an image based on image information;

(b) a first controller (printer controller 26 of Fig. 69, page 21, paragraph #0441) provided in the first location for controlling the image recording device;

(c) a memory (frame memory 13 or memory 15 of Fig. 69, page 21, paragraphs #0440 and #0447) provided in a second location apart from the first location for storing the image information;

(d) a second controller (system controller 9 of Fig. 69, page 21, paragraph #0440) provided in the second location, which is connected to the first controller through a communication network (1394 serial bus interface I/F of Fig. 69, page 21, paragraphs #0440 and #0441), for controlling the memory,

wherein the first controller sends a reading command signal to the second controller to read the image information stored in the memory, and to transmit the read information to the first controller through the communication network, and automatically controls the image recording device so that the image based on the image information transmitted from the second controller is recorded (pages 22 and 23, paragraphs #0465 and #0466).

Regarding claim 4, Tateyama et al discloses the claimed wherein the first controller sends the reading command signal to the second controller at a prescribed interval (print cycle disclosed in (pages 22 and 23, paragraphs #0465 and #0466).

Regarding claim 5, Tateyama et al discloses the claimed wherein the first controller sends completion information which indicates the image recording of the image information has been completed to the second controller, after completion of the image recording of the image information, and the second controller generates

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information indicating that image recording of the image information has been completed based on the completion information (completion of a print cycle disclosed in page 23, paragraph #0467).

Regarding claim 6, Tateyama et al discloses the claimed wherein the completion information is identification information corresponding to image information (completion of a print cycle disclosed in page 23, paragraph #0467).

Regarding claim 7, Tateyama et al discloses the claimed wherein the first controller sends completion information which indicates the image recording of the image information has been completed to the second controller, after completion of the image recording of the image information, and the second controller adds second completion information indicating completion of image recording to the image information based on the first completion information (pages 23, paragraphs #0467 and #0468).

Regarding claim 8, Tateyama et al discloses the claimed wherein the first completion information is identification information corresponding to the image information (completion of a print cycle disclosed in page 23, paragraph #0467).

Regarding claim 9, Tateyama et al discloses the claimed an image recording system (Figs. 65-70) comprising:

(a) an image recording device (memory 23, print-head 24 and driver 25 of Fig. 69, page 21, paragraph #0441) provided in a first location for recording an image based on image information;

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(b) a first controller (printer controller 26 of Fig. 69, page 21, paragraph #0441) provided in the first location for controlling the image recording device;

(c) a memory (frame memory 13 or memory 15 of Fig. 69, page 21, paragraphs #0440 and #0447) provided in a second location apart from the first location for storing the image information;

(d) a second controller (system controller 9 of Fig. 69, page 21, paragraph #0440) provided in the second location, which is connected to the first controller through a communication network (1394 serial bus interface I/F of Fig. 69, page 21, paragraphs #0440 and #0441), for controlling the memory,

wherein the first controller sends a reading command signal to the second controller to read the image information stored in the memory, and to transmit the read information to the first controller through the communication network (pages 22 and 23, paragraphs #0465 and #0466), and

wherein the second controller includes a device for adding priority order information for image recording to each image information stored in the memory, reads the image information to which the priority order information is added, output of the memory, and transmits the image information to the first controller (completion of a print cycle disclosed in page 23, paragraph #0467), and

wherein the first controller receives the image information transmitted from the second controller, and automatically controls the image recording device so that the image based on the image information is recorded, based on priority order information (pages 22 and 23, paragraphs #0465 and #0466).

Regarding claim 11, Tateyama et al discloses the claimed wherein the first controller sends completion information which indicates the image recording of the image information has been completed to the second controller, after completion of the image recording of the image information, and the second controller generates information indicating that image recording of the image information has been completed based on the completion information (completion of a print cycle disclosed in page 23, paragraph #0467).

Regarding claim 12, Tateyama et al discloses the claimed wherein the information of the completion is identification information corresponding to the image information (completion of a print cycle disclosed in page 23, paragraph #0467).

Regarding claim 13, Tateyama et al discloses the claimed wherein the first controller sends completion information which indicates the image recording of the image information has been completed to the second controller, after completion of the image recording of the image information, and the second controller adds second completion information indicating completion of image recording to the image information based on the first completion information (pages 23, paragraphs #0467 and #0468).

Regarding claim 14, Tateyama et al discloses the claimed wherein the first completion information is identification information corresponding to the image information (completion of a print cycle disclosed in page 23, paragraph #0467).

Regarding claim 15, Tateyama et al discloses an image recording method (Figs. 65-70) comprising steps of:



sending a read command signal for reading image information from a first controller provided in a first location to a second controller provided in a second location apart from the first location, which is connected to the first controller through a communication network, the image information being stored in a memory provided in the second location controlled by the second controller (see the rejection of claim 1 above, Figs. 65-70 and pages 22-23, paragraphs #0465 and #0466);

making the second controller to read the image information out of the memory based on the read command signal, after the second controller has received the reading command signal (page 23, paragraph #0466);

making the second controller to transmit the image information read out of the memory to the first controller through the communication network (page 23, paragraph #0466); and

making the first controller to receive the image information and causing an image recording device to record an image based on the image information, wherein the image recording device is automatically controlled by the first controller (page 23, paragraph #0466).

Regarding claim 18, Tateyama et al discloses the claimed wherein the first controller is adapted to send the reading command signal to the second controller at a prescribed interval (print cycle disclosed in (pages 22 and 23, paragraphs #0465 and #0466).

Regarding claim 19, Tateyama et al discloses the claimed sending from the first controller to the second controller the completion information which indicates that image

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recording of the image information has been completed, after completion of the image recording of the image information (completion of a print cycle disclosed in page 23, paragraph #0467); and

making the second controller to generate information showing that image recording of the image information has been completed, based on the completion information (receiving the completion of the print cycle disclosed in page 23, paragraph #0467).

Regarding claim 20, Tateyama et al discloses the claimed wherein the completion information is adapted to be identification information corresponding to image information (completion of a print cycle disclosed in page 23, paragraph #0467).

Regarding claim 21, Tateyama et al discloses the claimed sending from the first controller to the second controller first completion information which indicates that image recording of the image information has been completed, after completion of the image recording of the image information (completion of a print cycle disclosed in page 23, paragraph #0467); and

making the second controller to add to the image information, second completion information showing that the image recording has been completed, based on the first completion information (asynchronous transfer or isochronous transfer disclosed in pages 23, paragraph #0468).

Regarding claim 22, Tateyama et al discloses the claimed wherein the first completion information is adapted to be identification information corresponding to the image information (completion of a print cycle disclosed in page 23, paragraph #0467).

Regarding claim 23, Tateyama et al discloses an image recording method (Figs. 65-70) comprising steps of:

    sending a read command signal for reading image information from a first controller provided in a first location to a second controller provided in a second location apart from the first location, which is connected to the first controller through a communication network, the image information being stored in a memory provided in the second location controlled by the second controller (see the rejection of claim 1 above, Figs. 65-70 and pages 22-23, paragraphs #0465 and #0466);

    making the second controller add priority order information for image recording to each image information stored in the memory (4 bits PRIORITY shown in Fig. 13);

    making the second controller to read the image information to which priority order information has been added out of the memory (4 bits PRIORITY shown in Fig. 13 and page 23, paragraph #0467);

    making the second controller to transmit the image information to which the priority order information is added, read out of the memory to the first controller (4 bits PRIORITY shown in Fig. 13 and page 23, paragraph #0467); and

    making the first controller which has receive the image information to which the priority order information is added, send from the second controller to automatically cause an image recording device provided in the first location and controlled by the first controller to record an image based on the image information, based on priority order information (page 23, paragraphs #0466 and #0467).

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Regarding claim 25, Tateyama et al discloses the claimed sending from the first controller to the second controller the completion information which indicates that image recording of the image information has been completed, after completion of the image recording of the image information (completion of a print cycle disclosed in page 23, paragraph #0467); and

making the second controller to generate information showing that image recording of the image information has been completed, based on the completion information (receiving the completion of the print cycle disclosed in page 23, paragraph #0467).

Regarding claim 26, Tateyama et al discloses the claimed wherein the completion information is adapted to be identification information corresponding to image information (completion of a print cycle disclosed in page 23, paragraph #0467).

Regarding claim 27, Tateyama et al discloses the claimed sending from the first controller to the second controller first completion information which indicates that image recording of the image information has been completed, after completion of the image recording of the image information (completion of a print cycle disclosed in page 23, paragraph #0467); and

making the second controller to add to the image information, second completion information showing that image recording has been completed, based on the first completion information (asynchronous transfer or isochronous transfer disclosed in pages 23, paragraph #0468).

Regarding claim 28, Tateyama et al discloses the claimed wherein the first completion information is adapted to be identification information corresponding to the image information (completion of a print cycle disclosed in page 23, paragraph #0467).

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

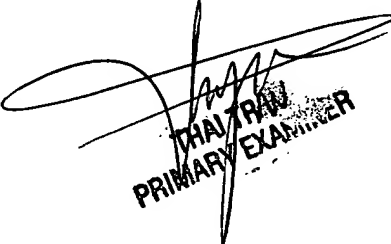
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Tran whose telephone number is (571) 272-7382. The examiner can normally be reached on Mon. to Friday, 8:00 AM to 5:30 PM.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTQ

  
THAI TRAN  
PRIMARY EXAMINER